

CERTIFICADO DE CALIDAD
INSPECTION CERTIFICATE
(DIN EN 10204:2004E - ISO 10474 3.1.B)

Numero: 19386
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Pedido del Cliente No: 3825 - 3872 - 3856 -
Customers Order No:

Vendido a: PLESA ANAHUAC Y CIA. S.A. DE C.V.
Sold to:

Fecha/Date: 13 de Diciembre de 2007

Dimensiones y tolerancias / Dimension and tolerances

Factura/Invoice:

Seamless Fittings according to ASTM A 234" M" WPB-97, A234" M" WPB-05a, NACE MR 01.75-2003

Bocas / Ends

ASME B 16.9 - 2003 and ASME B 16.28 - 1994

Biselado / Bevelled ends

DESCRIPCION DE MATERIAL / MATERIAL DESCRIPTION		PRUEBAS MECANICAS / MECHANICAL TEST				PRUEBA DE IMPACTO 0°C / IMPACT TEST 0°C						
ART. ITEM	COLADA HEAT CODE	CANTIDAD QUANTITY	DESCRIPCION / DESCRIPTION	ESF. CEDENCIA YIELD STRENGTH (Mpa)	ESF. RUPTURA TENSILE STRENGTH (Mpa)	ELONG. %2"	DUREZA HARDNESS HBW	DIMENSIONES SAMPLE DIM mm	1 Joules	2 Joules	3 Joules	PROMEDIO AVERAGE Joules
1	T36860	100	CODO 6 X 90° R.I. CED-STD.	316	491	40	120					
2	T34687	40	RED. CONC. 12 X 10 CED-STD	344	489	34	84					
3	T31899	12	RED. CONC. 12 X 6 CED-STD	316	470	38	84					
4	T34687	20	RED. CONC. 12 X 8 CED-STD	344	489	34	84					

ANALISIS QUIMICO / CHEMICAL ANALYSIS														
PROCESO PROCESS	COLADA HEAT CODE	COLADA/HEAT M.P./MOTHER PIPE	%C.E.	%C	%Mn	%P	%S	%Si	%Cr	%Cu	%Mo	%Ni	%V	%Nb
HF	T36860	36860	0.320	0.180	0.690	0.009	0.002	0.290	0.060	0.043	0.038	0.030	0.000	0.000
CF	T34687	34687	0.330	0.180	0.740	0.009	0.002	0.280	0.070	0.084	0.030	0.030	0.000	0.000
CF	T31899	31899	0.300	0.170	0.660	0.007	0.002	0.290	0.060	0.068	0.029	0.030	0.000	0.000
CF	T34687	34687	0.330	0.180	0.740	0.009	0.002	0.280	0.070	0.084	0.030	0.030	0.000	0.000

Este material cumple con los requerimientos especificados en la orden.
The material of this certificate heat number mentioned above is in compliance with the requirements specified in the order.

Certificamos que los resultados de los Analisis Quimicos y Pruebas Mecanicas son verdaderos o una copia fiel de los certificados enviados por el Fabricante y/o el proveedor de Materia Prima (Tuberia Sin Costura) conforme ASTM A106 Grado B con N°.

We certify that result of chemical analysis and mechanical test are true and correct copy of the test certificate issued by the manufacturer and/or supplier Raw material (Seamless Pipe) certs conform to ASTM A106 Grade B N°: 7054720 7037387 7010060 7037387

The Products described herein were produced in accordance with the above referenced specification and are identified with the "R" which is permanently marked on each fitting.

Jefe de Calidad:
Quality Manager:

ING. JOSE MARLINEZ MACIAS

CC-008

Notes:
Formado en caliente a 620°C-980°C, enfriado al aire; Formado en frio normalizado a 940°C max. Tiempo de permanencia 10'.
Inspección Dimensional: Satisfactoria.
CF: FORMADO EN CALIENTE/HOT FORMED

Notes:
Hot formed fittings in a range from 620°C to 980°C, cooled in still air.
Cold formed normalized at 940°C max. Holding time 10'.
Visual dimensional check: Satisfactory
CF: FORMADO EN FRIO/COLD FORMED